2009-09-16 Wednesday Morning Pbar Notes

Wednesday, September 16, 2009
7:09 AM

Transfers

Column 4 Number_3_Transfer Time		Column 21 Number_20_A:IBEAMB sampled on $91 (A:BEAM7), E10	Column 22 Number_21_A:IBEAMB sampled on $94 (A:BEAM9), E10	Unstacked (mA)	Column 23 Number_22_R:BEAMS (R:BEAME0[0]) pre xfer E10	Column 24 Number_23_R:BEAM (R:BEAME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance
Totals =>				85.67			75.73	88.39%	92.95%	93.35%	6	1	3.749	2.968	1.883
Tuesday, September 15, 2009	14:42	92.48	6.80	85.67	0.11	71.80	75.73	88.39%	92.95%	93.35%	6	1	3.749	2.968	1.883

- One set of transfers from 93mA stack was 88% efficient.
- Afterwards, spinning 6.7mA stack awaiting cryo work to finish.

Stacking

- No stacking due to Helium Frig work.

Studies

- Transfer function measurements were made on the core transverse cooling systems.

Requests

- Recycler wants us to transfer at least 50% of our stack to them after lunch.
- AI wants to do tune across the aperture.

The Numbers

- Paul's Numbers
- AI's Numbers
  - Stacking
    - Pbars stacked: 08.01 E10
    - Time stacking: 07.02 Hr
    - Average stacking rate: 01.14 E10/Hr
  - Uptime
    - Number of pulses while in stacking mode: 6993
    - Number of pulses with beam: 0
    - Fraction of up pulses was: 00.00%
  - The uptime's effect on the stacking numbers
    - Corrected time stacking: 00.00 Hr
    - Possible average stacking rate: 00.00 E10/Hr
    - Could have stacked: ∞ E10/Hr
  - Recycler Transfers
    - Pbars sent to the Recycler: 85.67 E10
    - Number of transfers : 6
    - Number of transfer sets: 1

- Average Number of transfer per set: 6.00
- Time taken to shoot including reverse proton tuneup: 00.02 Hr
- Transfer efficiency: 87.77%

- Other Info
  - Average POT : ☐ E12
  - Average production: 0.00 pbars/E6 protons

- * Red indicates a problem during data retrieval. See the message window for details.
- * Missed one or more A:IBEAM7 events somewhere in the middle of the user selected time span. Calculated time shot using 13 secs per transfer.

Requests:

- Tunes across the aperture?

Plots